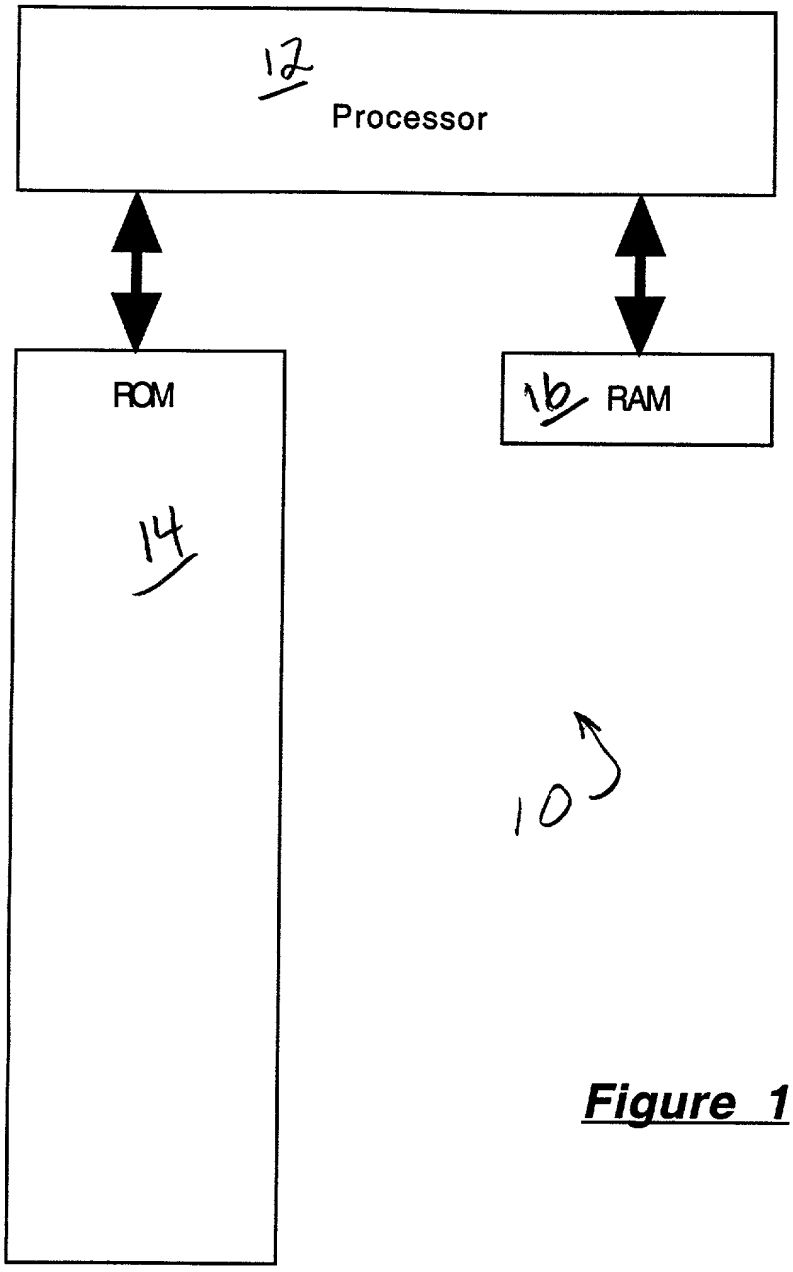

Figure 1

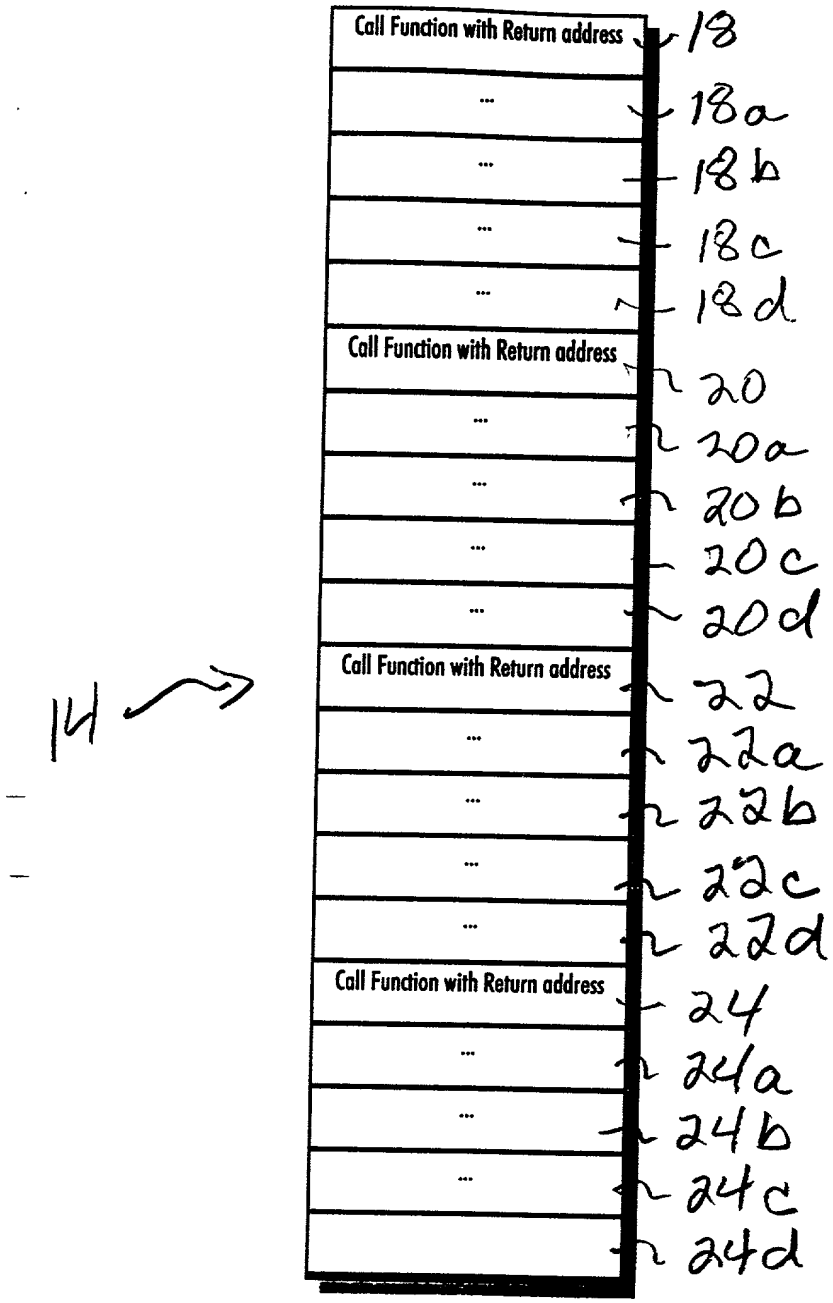
Call Function with Return address
...
...
...
...
Call Function with Return address
...
...
...
...
Call Function with Return address
...
...
...
...
Call Function with Return address
...
...
...
18
18a
18b
18c
18d
20
20a
20b
20c
20d
22
22a
22b
22c
22d
24
24a
24b
24c
24d
14

Figure 2

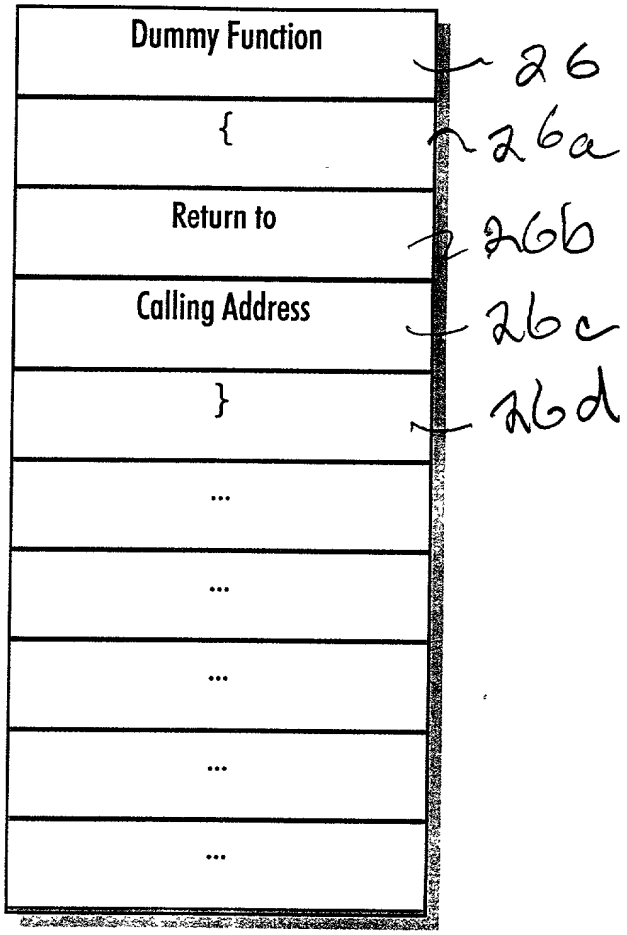
Dummy Function
{
Return to
Calling Address
}
...
...
...
...
...
26
26a
26b
26c
26d
16

Figure 3

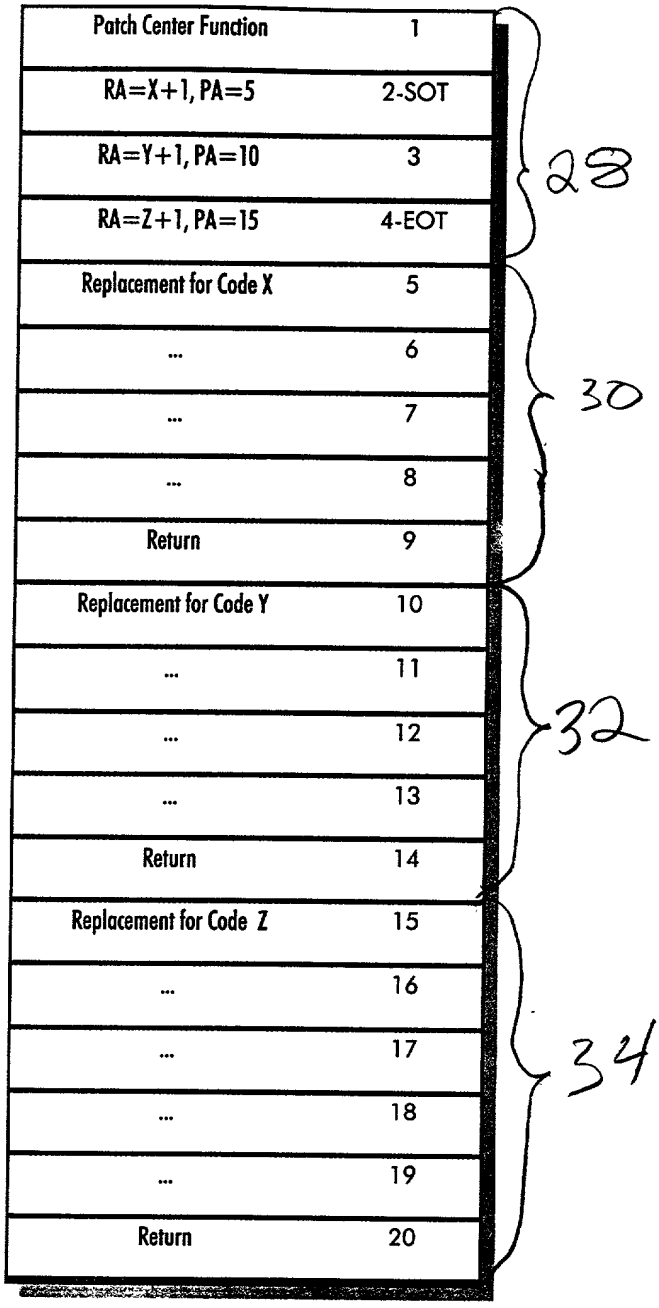
Patch Center Function
1
RA=X+1, PA=5
2-SOT
RA=Y+1, PA=10
3
RA=Z+1, PA=15
4-EOT
28
Replacement for Code X
5
...
6
...
7
...
8
Return
9
30
Replacement for Code Y
10
...
11
...
12
...
13
Return
14
32
Replacement for Code Z
15
...
16
...
17
...
18
...
19
Return
20
34

Figure 4

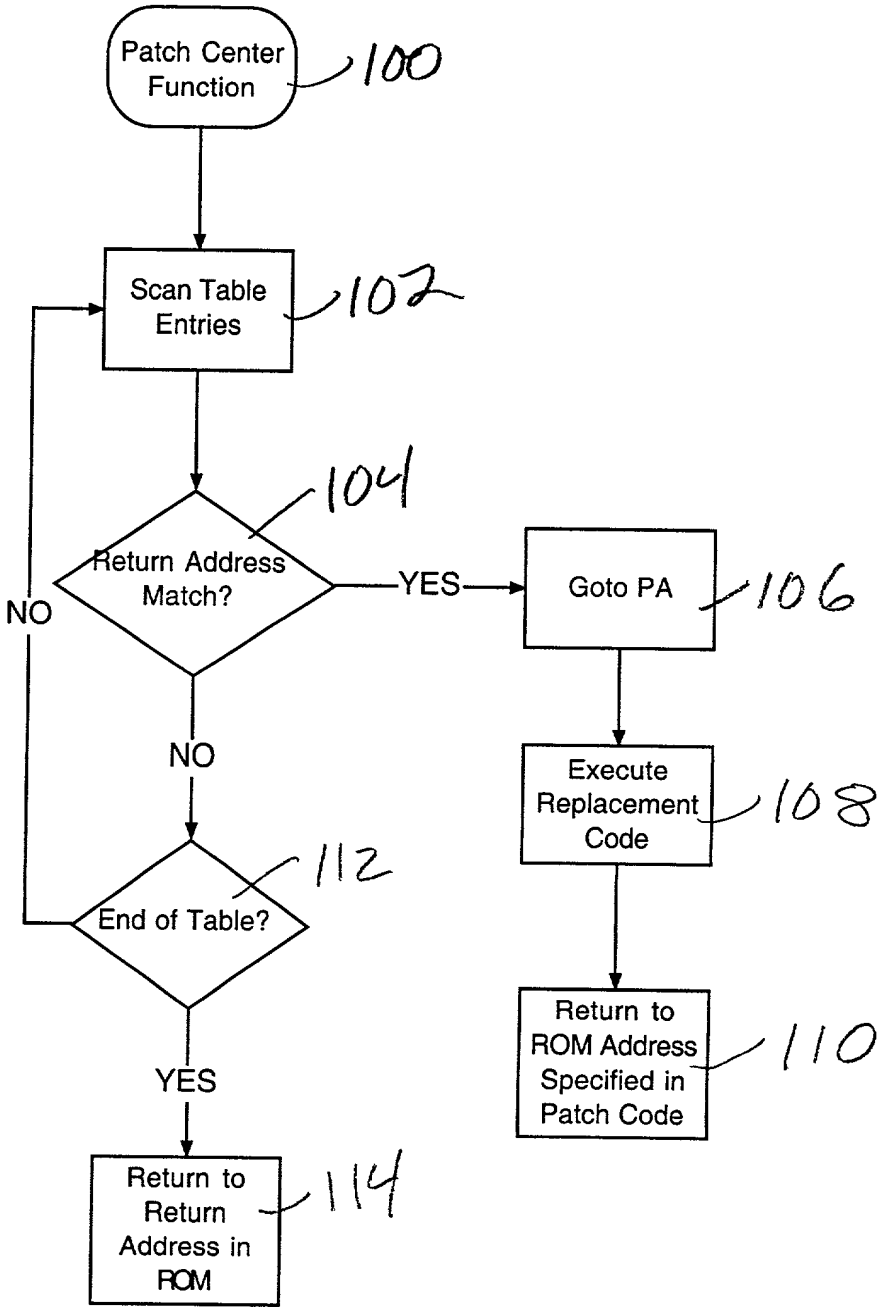
Patch Center Function
100
Scan Table Entries
102
Return Address Match?
104
YES
Goto PA
106
NO
Execute Replacement Code
108
Return to ROM Address Specified in Patch Code
110
NO
End of Table?
112
YES
Return to Return Address in ROM
114

Figure 5